INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000162

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B29C45/74, B29C45/53, B29C47/80, B29B7/82				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
Int.Cl ⁷ B29C45/00-45/84				
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	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2005			
Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho			1996-2005	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
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C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT	<u> </u>	<u> </u>	
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
X	JP 36-1272 B1 (Shoichi TERAO	KA),	1	
Y	11 March, 1961 (11.03.61), 2-7			
	Full text; particularly, page 1, left column; Figs. 1, 2, 4 to 6			
	(Family: none)			
	<u>-</u>			
X Y				
I	Y 03 September, 1957 (03.09.57), Page 4, right column to page 5, left column; page 10, left column to right column; page 11,			
	right column; Figs. 1 to 3			
	(Family: none)			
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X Further do	cuments are listed in the continuation of Box C.	See patent family annex.	•	
"A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand				
to be of particular relevance the principle or theory underlying the principle or th				
filing date		considered novel or cannot be consi	dered to involve an inventive	
	which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance; the		
	on (as specified)	considered to involve an inventive combined with one or more other such	step when the document is	
"P" document published prior to the international filing date but later than the		being obvious to a person skilled in th		
priority date		"&" document member of the same patent	family	
Date of the actual completion of the international search Date of mailing of the international search report			and nonet	
04 April, 2005 (04.04.05)		26 April, 2005 (26	•	
Name and mailing address of the ISA/ A		Authorized officer		
Japanese Patent Office				
Facsimile No. Telephone No.				
Form PCT/ISA/210 (second sheet) (January 2004)				

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International application No.

PCT/JP2005/000162 C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 7-314530 A (Kabushiki Kaisha Aipekku), 2 05 December, 1995 (05.12.95), Claims 1 to 2; Par. Nos. [0007] to [0009], [0020], [0026]; Figs. 1, 2, 4 (Family: none) Y Microfilm of the specification and drawings 3-5 annexed to the request of Japanese Utility Model Application No. 18104/1990 (Laid-open No. 111446/1991) (Hitachi Metals, Ltd.), 14 November, 1991 (14.11.91), Claim 1; examples; Fig. 1 (Family: none) Microfilm of the specification and drawings Y annexed to the request of Japanese Utility Model Application No. 37637/1986 (Laid-open No. 150125/1987) (The Japan Steel Works, Ltd.), 22 September, 1987 (22.09.87), Claim 1; page 3, (Problems that the Device is to solve); Fig. 1 (Family: none) JP 8-156062 A (Fanuc Ltd.), X 18 June, 1996 (18.06.96), Y Claim 1; Par. Nos. [0002], [0010] to [0011], [0016], [0018] to [0019], [0025]; Fig. 1 (Family: none) JP 2001-341178 A (Seiko Epson Corp.), . X Y 11 December, 2001 (11.12.01), Claim 8; Par. Nos. [0037], [0041]; Fig. 4 (Family: none)